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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,315	09/885,315 06/18/2001		Shinichi Hayashi	FUJI 18.659	4585
26304	7590	06/02/2006		EXAMINER	
KATTEN M	UCHIN	ROSENMAN LL	SHINGLES, KRISTIE D		
575 MADISO	N AVEN	NUE			<u>,</u>
NEW YORK, NY 10022-2585				ART UNIT	PAPER NUMBER
,				2141	

DATE MAILED: 06/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

.	Application No.	Applicant(s)					
Office Action Summan.	09/885,315	HAYASHI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kristie Shingles	2141					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 08 M	arch 2006						
,	action is non-final.						
3) Since this application is in condition for allowar		secution as to the ments is					
closed in accordance with the practice under E	·						
Disposition of Claims							
4)⊠ Claim(s) <u>1,2,5,8-10,12-15 and 18-20</u> is/are pen	ding in the application.	•					
4a) Of the above claim(s) is/are withdraw							
5) Claim(s) is/are allowed.		•					
6) Claim(s) <u>1,2,5,8-10,12-15 and 18-20</u> is/are reje	ected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	г.						
10) The drawing(s) filed on is/are: a) acce		Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).					
	a) All b) Some * c) None of:						
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
	· ·						
·	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate Patent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	4.0					

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DETAILED ACTION

Response to Amendment

Applicant has amended claims 1, 8, 9 and 18-20. Claims 3, 4, 6, 7, 11, 16 and 17 are cancelled.

Claims 1, 2, 5, 8-10, 12-15 and 18-20 are pending.

Response to Arguments

1. Applicant's arguments with respect to claims 1, 9 and 19 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. <u>Claims 1, 2, 5, 8-10, 12-15 and 18-20</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over *Yamada et al* (US 6,738,352) in view of *Buyukkoc et al* (US 6,452,902).
- a. **Per claim 1,** Yamada et al teach a traffic engineering method of a network divided into a plurality of areas, each area including a plurality of nodes, said method comprising the steps of:
 - calculating a normalized value used for the load-balancing process, based on address information of the packet supplied to an ingress node of the network from

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an outside of the network (col.14 lines 18-52; path information number functions as flow discrimination information used for load-balancing);

- adding said normalized value to switching information of said packet (col.9 lines 1-4, col.16 lines 11-12; flow discrimination information is put into the packet header);
- forwarding said packet from said ingress node to the plurality of nodes (col.7 lines 4-22);
- receiving said packet from said ingress node at an area boundary node located on a boundary of the plurality of areas (col.7 lines 4-22);
- extracting said normalized value, used for carrying out the load-balancing process in an area including said area boundary node, from the switching information of said packet (col.12 lines 24-28, col.16 lines 5-18; flow discrimination information is extracted from header);
- redistributing a traffic flow from a failed route to a route other than the failed route if receiving a failure notification at said ingress node or said area boundary node (col.8 lines 1-15, col.15 lines 1-6); and
- deciding whether a traffic loss occurs by redistributing the traffic flow from said failed route to the route other than said failed route (col. 16 lines 40-55).

ramada et al teach edge apparatuses and performing load-balancing for each node of the network wherein a plurality of destination devices or routes are provided in each node (col.11 lines 45-50, col.14 lines 2-15). Yet Yamada et al fail to explicitly teach carrying out a load-balancing process at a boundary node in said each area in a closed manner, however Buyukkoc et al provision for a load-balancing process edge nodes (Abstract, col.6 lines 8-22, col.7 lines 14-23, col.8 lines 56-59). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings Yamada et al with Buyukkoc et al for implementing a technique useful for load-balancing and routing data, in an area of a network. The idea of dividing a network into multiple areas is a well-known technique used in the art to more effectively manage devices in smaller groups within common network domains.

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b. Claims 9, 10, 13, 14, 19 and 20 contain limitations substantially equivalent to

claim 1, and are therefore rejected under the same basis.

c. Per claim 2, Yamada et al with Buyukkoc et al teach the traffic engineering

method as claimed in claim 1, Yamada et al further teach the method further comprising the step

of deciding a destination of a packet in said each area (col.8 lines 7-36, col.14 lines 43-52;

Buyukkoc et al: col.3 line 54-col.4 line 62, col.6 lines 8-33).

d. Per claim 5, Yamada et al with Buyukkoc et al teach the traffic engineering

method as claimed in claim 1, Buyukkoc et al further teach the method further comprising the

step of notifying a closest node apparatus that carries out the load-balancing process and is the

closest to said node apparatus on an upstream side of said node apparatus, about a failure if

detecting the failure (col.8 lines 1-19, col.9 lines 5-24).

e. Claim 12 contains limitations substantially equivalent to claim 5, and is therefore

rejected under the same basis.

f. Per claim 8, Yamada et al with Buyukkoc et al teach the traffic engineering

method as claimed in claim 1, Yamada et al further teach further comprising the steps of: setting

a new route, if it is decided at said deciding step that the traffic loss occurs by redistributing the

traffic flow from said failed route to the route other than said failed route; and switching the

traffic flow from said failed route to the new route (Buvukkoc et al: col.9 lines 5-12).

g. Claims 15 and 18 contain limitations substantially equivalent to claim 8, and are

therefore rejected under the same basis.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: Devarakonda et al (6,424,992), Sethu (5,812,549), Liu et al (2006/0112176),

Matsuzawa et al (2006/0109853), Cotter et al (6,272,548), Lu et al (6,754,843),

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kristie Shingles whose telephone number is 571-272-3888. The

examiner can normally be reached on Monday-Friday 8:30-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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Kristie Shingles

Examiner

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